

Abstract

In the pyrolytic oil-production index method, or POPI method, the numerical values obtained by the application of the prior art POPI method are standardized or normalized. In another aspect, the POPI method and associated data are employed in combination with other empirically determined information to provide values of (1) the API gravity for the reservoir oil; (2) the Apparent Water Saturation (AS_w) of the reservoir rock; and (3) the cementation and saturation exponents that are used in the Archie equation for calculating the water saturation in the oil-reservoir rock. This method results in the standardization of the numerical values derived by the POPI method. Applying the normalization or standardization process to the POPI method results in the conversion of the numerical value of $POPI_0$ for good oil-producing reservoir rock to a standard value.